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THE POLITICAL ENTREPRENEUR: THE UTILITY OF SMALL POLYARCHIES

R. Joseph Monsen, et al

Yale University

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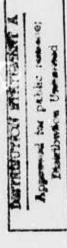
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THE POLITICAL LYTREPRENEUR: THE UTILITY OF SYALL POLYARCHIES?\*

R. Joseph Monsen and Bruce M. Russett University of Washington and Yale University \* Presented at the World Congress of the International Political Science Association, Montreal, Canada, August, 1973. This research has been partially supported by contract N-0014-67-4-0697-0997 from ARPA, Behavioral Sciences, monitored by the Office of Naval Research. The project was begun in years when, by coincidence, both authors were grantees of the John Simon Guggenheim Menorial Foundation. Of course, no individual or organization is responsible for the results



#### Summary

This paper consists of two major sections:

- a theoretical discussion of the political entrepreneur and the potentially different behavior of leadership in polyarchies or non-polyarchies, and
- 2) an empirical section which attempts to test our hypotheses about political entrepreneurship--particularly as they apply to different comparative political systems and most importantly (as it turned out) different sizes of bureaucratic systems.

#### Re-ume

Cet article a été fait en deux parties principales:

- 1°) une discussion théorique de l'entrepreneur politique et des différentes façons desquelles la direction peut se comperter dans les Polyarchies and Non-polyarchies,
- 2°) une partie empirique qui essaye de vérifier nos hypothèses concernant l'entrepreneur politique, en particulier comme ils s'appliquent aux différents systèmes eomparatifs (t, ça s'est montré important, aux différentes grandeurs des systèmes bureaucratiques.

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Introduction: Corporate Leadership

Corporate leaders usually act to maximize their own self-int.rest--which may or may not result in profit maximization for the corporation (Monsen and Downs, 1965). Similarly, it is well recognized that a particular political leader's interests differ from those of other leaders, and of the national interest" as well. Indeed, one of the central problems of political theory is how to their own self-interests, will incorporate the interests of the political structure so that leaders, in defining other members of the political system. And as different corporate structures seem to produce different kinds of self-interested behavior by managers or owners, so it is commonly understood that different types of political structures will encourage their major political actors to define and pursue their self-interest in very different ways. We intend in propositions about the consequences of self-interested behavior on the part of leaders of different types of both firms and nations.

Our viewpoint on the notivation and behavior of heads of regamizations is derived from empirical studies relating to the behavior of the modern corporation. Monson et al. (1963) have found that firm performence varies substantially depending upon whether the firm is owner or manager controlled. In the case of the owner controlled firm, they have found that the rate of return on investment is statistically significantly higher and consistently so over a twelve year upon behavior of large corporations (Monson, Chiu, and colory, 1968). Further studies have found similar differences between owner and manager controlled firms relating to dividend payout policy (fonsen, chiu, and Pullum, 1969) and to risk posture (Dordeux, a.d.). (Risk in the latter case is defined in the usual financial analysis manner as variation in the price of the stock over thre.) Thus, large controlled firms. If usual financial analysis manner as variation in the price of the stock over thre.) Thus, and revards under which each set of managers operate, these results of their investment, a smaller dividend payout history, and a record of greater risk variation than did large manager-controlled firms. If one analyzes the constraints and revards under which each set of managers operate, these results symmetrical for the two firms of managers. The manager which such set of managers of the stock of finds that if he takes major risks and the outcome is successful, the rewards to him are substantial. The non-this is possible often with ownership as little as 10s of the reward for owner managers and for non-owner managers and for non-owner managers and for non-owner manager manager and so non-owner manager manager manager and the outce of the real Under such chicked payout, for example, is also understandable. Since the him owner manager must keep his various stockholder ground since he personally is not as concerned about

the double taxation aspects of high dividends as is the owner manager, large non-owner managed firms have consistently higher dividend payouts than do owner-managed firms (Monsen, 1969).

The point of this discussion of the motivation and behavior of corporate managers is to suggest how some differences in types of political leadership, and in the size of political organizations, may produce quite different behavioral patterns on the part of political leaders of polyarchies and non-polyarchies.

The problem of size is introduced because the larger the organization the more difficult it is for leadership of have effective access to undiluted information and veffectively to see that orders are fully carried out. As well, in large bureaucratic organizations it is necessary to develop standard operating procedures to aid in making procedures may not operate well in any particular case and, further, be difficult to change because oi the independence of top managers from the citizenry, thus making any polyarchic institution less effective. As economists have long been awars, to be able freely to vote out the management of GM is virtually impossible due to the many hands in which the stock is held. To be able to reach such a large electorate and convince them of the need to vote for an "insurgent" stockholder's platform is tremendously costly and a very difficult communication problem. A small firm, however, where more thorough contacts can be made with the shareholders, presents a both less costly and more feasible communication problem-in that in a given amount of time prior to any corporate election, the opportunities of reaching a smaller rather than a larger number of voters is obviously greater.

We admit that it is difficult to determine whether specific policies of different types of leadership or sizes of systems actually maximize the welfare of the majority in interest of the nation's leaders. However, for our purposes here we can simply ask how policies differ in systems with various kinds and degrees of control over the leadership. Just as with stockholders who by a majority of their vote can determine the leadership of the corporation-so does majorderermine the leadership of the corporation-so does majority voting in polyarchies help to sche a smiliar problem. The owner-controlled firm, however, is note a smiliar in this regard to the non-polyarchy political system--where the leadership is not worried about being defeated at the polls generally and his actions may therefore show less concern about "public opinion."

There are, of course, many types of political systems, with the differences often blurred. Nevertheless, it is sometimes useful to think in terms of the characteristics of certain ideal types.

In systems without open and free elections, or what we shall call "commund" systems, leaders arrive at the top of the system in various ways. Some nove up by simply attaching themselves to someone else higher up who eventually assumes high leadership and they are able to take over in turn themselves. Others move up by eliminating rivals, by staging a coup, by developing a personal clique, or by gaining control of some critical part of the organization and using it to gain power. Two or more of these techniques are commonly used to get to the top of an organization or nation.

What type of behavior do these techniques develop or require in leaders? A number could be mentioned. Seven stanc out as particularly common:

- (1) The ability to act rapidly in making decisions and seizing opportunities for command and leadership.
- (2) The ability to act forcefully and often drastically-the history of authoritarian rulers who have risen to power (such as Hitler in burning the Reichstag or Kirushchev in killing Beria) are replete with such examples.
- 5) The ability to be secretive and to plot.
- (4) The ability to eliminate opposition, which has seldom been pursued more vigorously in history than by Stalin--which may partially account for his long tenure as a national leader.
- (5) The ability to rely on intuition is characteristic of nost successful national leaders. Those without it selden make the history annual.
- (6) The ability to develop one's own loyal subordinates. In business organizations leaders usually develop a number of subordinates upon whom they depend to carry out orders and to support them. In authoritarian regimes this is of equal, if not more, importance. Hitler depended upon Borman, Goebbels and others of his entourage to maintain himself in power.
- (7) The ability to understand where power is in an or ganization and how to seize it. Stalin's use of the

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secretariat of the Soviet Communist Party has by now become a classic case for other aspirants. At the time he took over the post, few others could have guessed that it could have heen made into a position of such unequalled power. Stalin's early recognition of this made it possible for him to gain an early lead in succeeding Lenin.

A system, therefore, without open and free elections-and free discussion of public issues-develops authoritarian leaders who are necessarily both ruthless and forceful. The ground rules and the incentives of this type of system reinforce such behavior. Therefore, those individuals who are most adept at developing the above set of techniques get to the ton.

In polyarchies, or political systems that have not only open and free elections, but open discussion of issues (where no referendum occurs without open discussion), quite different behavior and types of political leaders can be expected to emerge.

In such an environment leaders must develop techniques that will get them elected. Typically, such strategies are to develop or create popular issues. Such issues may be latent, but they somenow must be brought to the surface-as Ralph Nador did with automobile safety, or as John F. Kennedy did by using the idea of a "missile gap" to hely defeat Richard Nixon. Charisma as a political tool has become increasingly important is a relevision and communication have become more important in national elections.

Finding the popular mean of public opinion is a critical technique for a politician in an open system where opinion distributions are roughly normal...on the principal issues. Further, the successful politician in an open system with free elections needs to sense the direction of public opinion and go with that tide-unless it is possible to manipulate public opinion to his advantage. Manipulation is always more difficult than following the tide. Thus, there are many more politicians who follow the party line than those who attempt to change it or go off in another direction. Needless to say, all attempts at manipulating public opinion must follow a strand of national ideology in some way or at least appear to do so. This explains a great deal of the

Certain myths and ideologies are ritualized in the political rhetoric in systems with free elections. process where open discussion and free elections occur. If we ask, therefore, "Are there any particular leader-ship characteristics that these ground rules and incentives develop?" --the answer is obviously "yes." Four major characteristics stand out as identifiable with leaders in systems having open and free elections:

elections are faced with the problem of not going beyond the limits of public opinion (at least far beyond the with free elections must, of necessity, rely upon what they feel is public opinion as a basis for at least their public positions. In many instances, of course, the public and private position of such leaders have been quite opposite. Franklin D. Roosevelt's private proparations to aid the British were far in advance of his public statements. Leaders in systems with free Reliance upon public opinion. Leaders in systems median position of the penulace).

important in a political system where budget matters are controlled by another branch of the government-as with the Congress in the U.S. A leader in such a system can be blocked in his goals by a man otherwise much less powerful, who may be chairman of some particular committee that controls the release of funds or The avoidance of making enemies is particularly

it necessary to reconcile opposing interest groups to maintain a majority of votes in a free election. Therefore, a coalition of interest groups is usually necessary to insure election--requiring that the leader mediate A leader in an open system will frequently find between interest groups.

(4) In a system in which free elections are preceded by open discussion, successful leaders usually are also successful manipulators of public opinion. This has many facets ranging from the manner in which news is released, the issues publicized, etc.

elections and discussions? The above characteristics tend to produce leaders who are cautious, moderators of public opinion, followers rather than leaders of public opinion (except in those relatively rare cases where a leader has great charisma and is skilled at manipulating public opinion). Otherwise, they will tend to make public gestures (such as what type of leader develops in an open system with free

cause of opposing interest groups of the pelyarchy, however, such gestures often are devoid of specific centent. Thus, a leader in such a system will attempt to portray himself as Nixon did in shaking his finger at Whrushchev at the Moscow. but Will, in effect, be cautious about becoming involved in conflict with opposing interest groups that might block his a Vinorous leader (reflecting the trends of public opinion) gestures are very important for leaders in maintaining the type of image they wish to project to the electorate. Befair) which reflect public epinion's desire for firmness without any particular diplomatic content, Such symbolic legislation or lose him votes.

logically, how is it possible (aside from the problems of the Arrow paradox) for him not to maximize the majority desires of the electorate? Four answers to this question can be given, especially applicable to foreign policy behavior: Given this ideal description of a leader in a system with open discussion and free elections, one may

(i) The leader lacks apritude in international politics-either because of insufficient training or experience or because he lacks the basic characteristics for power

to be able to reverse his course and hence policy lags behind public opinion. Public opinion can change too fast for a leader

moderating and compromising roles common to this type of leader may create ineffective policy and non-decisions. In areas of public policy and foreign policy the

A leader can become too caught up in and become too much a "true believer" in the national ideology despite the population's desire for more "pragnatic" solutions to public policy.

centives of different types of political systems can be expected to produce different types of national leaders who exhibit quite distinct behavior and policy characteristics. All told, then, the different ground rules and in-

therefore, can cause consistent deviation from the pursuit of the majority's choice even in a system where the leader must follow public opinion to be elected. In systems without open and free elections, it is considerably more obvious how such deviation between the majority's interest, as they perceive it, and the leader's interest, as they perceive it. The leader's pursuit of his own self-interest,

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<sup>1.</sup> A leader of a country in trying to maximize his own power, may do it with a strategy either to maximize central over his own national political system, or over a larger, perhaps global international system. Salazar took one route, mitler another. Sweden took one route in the 18th Century, another in the 20th.

while the difference in decision-making under different types of leadership and under different types of political systems is apparent from studying the literature on Soviet and America, economic organizations, little theory has been developed to explain such differences. Indeed, since it is usually only among Soviet specialists that such information widely in the centrasts and comparisons have not been drawn Caricature does indeed offer insights. Yet it has not given us any systematic theory about why certain "monoptimal" economic results are apt to happon--nor indeed why specific political decisions may result from a given type of political

really is on most issues. (There is no close counterpart to the continuous polling that scent to occur in contemporary times by occupants of the White House.) Rather, he must know what the key power points in the system are, and keep control polymrchal or "command" political system, what corollaries gavelop from our assumption that the political leader wishes to maximize his own self-interest? He has to begin with little fear of public opinion--unless threatened by a coup or revolution. In fact, he may not know what public opinion If we look at the decision-making process in a nonof taen.

to pursue policies of rapid accondic growth (and parhaps strategy to keep, the status que. In other words, does he pursue a Stalinist or a Salazation approach? Undoubtedly, busideology, it strong, will affect how he views his own rapid economic and military growth, or he may see his position action promotes the leader's self-interest as necessitating made precarious by change. This does not explain whether an action promotes the leader's self-interest as he intends it to do. Quite obviously, an ideology may actually be followed to the detrinent of a leader's own self-interest because it leads to misperceptions about which actions vill satisfy action when it affects only perceived "national" interest, also from perceived self-interest as well as from the perceived interest of his country. The leader of a polyarchy would do the same. However, the leader of a command system is freer to disregard ideology when the ideology would seem to dictate something against his self-interest--so long as he can in fact The command leader is faced with the decision whether itself. For instance, if convinced that capitalists are wildly aggressive, a communist leader will behave that way not self-interest, depends on the type of political system see that it is against his self-interest as he defines it.

One could argue that the Pentagon papers (especially as

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president followed short-term self-interest in Vietnam.
That is, he felt he could not afford to "lose" because of
public ideology and opinion and thus felt the necessity
of postponing loss until out of office. This argues that
the president perceived public opinion as sufficiently
ideological that "national" as well as self interest had
to be modified accordingly. A leader of a command system
would never have had to make such a concession to popular interpreted by Ellsberg, 1971) made clear how strongly a ideology. In a polyarchy symbolic gestures are necessary for public opinion. In a command system such gestures, if made, are apt to be more influenced by the ego and personality of the leader. Many of the military decisions of Hitler or Stalin can only be explained on the basis of their own egos. Hitler's architectural plans for Berlin are expressions of his ego fantasies. In contrast, in Washington, D.C. architectural grandeur has been reserved mainly for monuments of dead presidents which serve so aptly as symbolic gestures of the virtues of the "Republic.

downtage to threaten, frighten, and impress subordinates into into the state of the ability to inpress the populace leader's invulnorability and is one of the intaining the ship techniles known to man, whether it be noses or the Czars, the subjection of the populace to the power and ego of one man has inspired imitators for centuries. However, these techniques, which may work so well in a command system, tend to have negative feedback in a polyarchy. Indeed, in a polyarchy the ego of the leader must, necessity, be kept less visible from the public and from those whose aid he needs to make his decisions workable. In a command system the ego of the leader can be used to

rapidly to keep the opposition from gaining too much domestic "Common" enemy can for a while bring the populace together to support even an unpepular leader. Because of means of control over decision-making and suppression of opposition, war is much less an internal risk for leaders of command systems than for those of polyarchies--as Lyndon Johnson exemplified so vividly. Opposing interest groups that can be ignored (to a point) in a command system, can unseat a leader in a polyarchy. Since public opinion is so much more critical for a leader in a polyarchy, believed. lost. For such a war will create fewer demands for change in the society than economic growth. Indeed, a leader in a command system--if risks are not to adverse. From a leader's position, it may be safer to expand wer than economic growth--assuming it is not a big war and not lost. For such a war will create fewer demands for wars tend to expand the power of a External

short and support--thereby unseating the polyarcal leader. This suggests that the risk and reward of wars (unless short as successful) are asymmetrical between the risk run and the potential re and for leaders in polyarchies.

of a command system can regard the system more as his own property or personal ficf--unlike a leader of a polyarchy with fixed tenure and more constraints. Thus, if a nation can expand its power, this increases the power of the leader A leader of the command system. A crucial incentive, then, is that there is often a symmetrical relationship for the command leader between risk and reward-the risk of war and expending power is directly related to his own reward. For his limitations on tenure that would plague the leader of a polyarchy. Indeed, the leader of a polyarchy has a much more asymmetrical relationship between risk-taking wars and This line of reasoning suggests, therefore, that in a command system leaders willfind small wars and coups much more attractive than will leaders of polyarchies. A leader power is thereby directly increased -- with none of the own long-run power and status, Carl.

Leaders of small and/or poerer command systems may find, however, a espreation to the above argument. Namely, that the option is war and coups against larger and more powerful neighbors presents too great a risk. Therefore, they may, like Papa Doc of Haiti and Salazar of Portugal, prefer a snaller fief at home that one can control easily. They were like the fanous nonepolist of economic theory -- his greatest sources this may be the most appealing strategy. We have variations on this strategy, of course, Mussolini simply looked for smaller and weaker neighbors in Africa or across reward was his ability to become rich leading "the quiet the Adriate, Nonetheless, the key point in our argument is that since risk and reward are symmetrical for the command system leader-just as for the entrepreneur in capitalism--war may have more ricional appeal. Not only is risk and reward symmetrical, but in a command system war will have fewer risks for the leader than in a relyarchy. Hence the risks may be less and the rewards greater for a leader of a command system. These factors taken together suggest that a choice of a war policy is likely to be more deliberate in a command system and probably more accidental-though not necessarily less frequent-in a polygreny, assuming relatively rational decision-making by leaders.

Conventional wisdem to the contrary (hew Bolshevik leaders are blinded by their ideology and unable to see that the West is really non-aggressive, etc.), command leaders are freer to evaluate situations in terms of their can power and less in terms of ideology than are leaders of polyarchies. Illustrative of this is the 1939 pact between Hitler and Stalin-who could get together despite public opinion and ideology. By centrast, French and British leaders were too blinded by ideology to join Stalin against Hitler. What are the main external checks on a command system?

opinion that sweep over the public. Since command leaders can control commications and public opinion more effectively-and need not worry about free elections-ideological considerations need not weigh as heavily in their final decisions. Thus, contrary to conventional wisdom, command systems may In polyarchies ideelogy is perhaps talked about less than in command systems, but may carry more weight in final decisions than the realities of the power situation. Leaders of polyarchies are swayed in their decisions by the waves of be more pragmatic about power situations and give less weight to idealogical considerations than leaders in polyarchies.

are in this same pragmatic vein. They are the evaluation of their economic and military ability and the probability of defeat or victory in specific circumscances. Both of these concerns then are non-ideological; rather, they are concerned with power and the ability to win. In this regard we would again expect the leaders of command systems to be more deliberate in their decisions regarding foreign affairs and war than are those of polyarahies. The two other main external checks on command systems

Concerned with public opinion, and predicting its shifts, as with attempring to control the bureaucracy. Such concorn is highly rational for him as it maximizes his power and his chances of being elected or reelected. Leaders in polyarchies may feel the necessity of making symbolic gestures -in essence to give evidence to their publics that they are steadfast in their support of commonly esteemed values and ideologies, their gestures may not be understood by other countries. This support of possible misunderstanding, therefore, increases the The leader of a polyarchy, therefore, is at least as risks of war -- particularly with command systems,

In certain circumstances polyarchies may be drawn into ideological wars. (This occurs most commonly between the ideological systems of fascism, communism, and democratic capitalism.) Leaders of polyarchies, therefore, may find that public opinion against an opposing ideology can draw them into conflicts that leaders of command systems would avoid, given a similar military position or potential gain

<sup>2.</sup> It is true that previous empirical studies (e.g. Rummel 1968 and, with some reservations Wilkenfeld 1972) have found little systematic relationship between political system type and war-preneness. The subject nevertheless is worth further examination here.

from even a successful cutcome. This suggests, again, thut leaders of polyarchies are not able to make decisions as easily or rationally based upon sheer power "profit and loss" calculations. Polyarchies often appear unpredictable to command systems (and themselves, as well) because their policies may not be consistent. The leadership of a polyarchy bases many of its decisions upon the reading or prediction of public epinion. Therefore, a sudden change in public opinion can cause drammic shifts in policy changes that leaders of command systems, used to thinking in more pragmatic power terms, find hard to understand. This is another circumstance that can create dangerous international problems. When two opposing leaders are playing fereign affairs by different sets of rulas, unexpected conflicts are much more apt to

systems are possible whenever one side can clearly or easily win without tee great a cast. The crushing of Grechoslovakia and Hungary by the U.S.S.R. are typical examples. A corollary to the above is that leaders of similar type systems, such as leaders of polyarchies or leaders of command systems, will have fewer wars than between different type systems. However, wars between different command

There is a basic difference in strategy for maximizing self-interest between leaders of polyarchies and those of command systems. In the former, leaders maximize self-interest by NOT testing their power. In other words, by aveiding controllations with other politicians and staying within the limits of public epinion, they side-step possible loss of an election and their place in history. It is pussible to craitent other members of their party, crush them, and lead public epinion in a polyarchy. But his them, and lead public opinion in a polyarchy. But his the risky to do so. Therefore, it is prudent to keep within the ranks of public epinion rather than risk political defeat or deviate too far in any direction from the mean opinion. (President Lyndon B. Johnson found himself in this position over the Vietnam 3 War-when public opinion changed and his policies had not.)

for balancing the wishes of various groups--within the leader-ship ranks at least, if not among the populace. The difference in political balancing is essentially in the breadth and inclusiveness of the relevant parts of the political system. It should also be noted that all leaders must give concern In a firm, the non-owner manager has to worry net only about pressures from stockholders, but pressure from within his own managerial group. The difference is a matter of degree, of course. While Stalin could take greater risk in ignoring opposition than even Khrushchev, in the later Soviet system, both could take greater risks than an American president.

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Distortion of Information and Commend Fulfilment Burremerics

command systems with problems of distortion formation and command fulfilment and thereby a loss of control over the system. This loss of control tends systematically to prevent the goals and objectives of the top leadership from being fully realized. Further, the larger the bureaucracy the more acute these problems become. An example of this is seen in President Nixon's creating his own small foreign relations section within the White House in creat to control his own foreign policy. Apparently, President Nixon Tell the State Department had become so large that he could not rely on its fully following his orders, ner could be completely rely on the infernation being supplied him by that organization. Thus, the creation of his own separate "mini" State Department in the White House was Bureaucracies face leaders of both polyarchies and his solution.

Deviation from the leader's goals is caused (1) by the fact that bureaucrats are metivated by the desire to enhance their own personal advancement, and (2) because it is very difficult for superiors to check fully on the actions (or inactions) of their subordinates.

screen information so that only data favorable, to them is passed upward to their superiors. If the bureaucratic hierarchy has many levels, the cumulative effect of this screening process may be substantial. While screening of information is a legitimate part of a bureaucrat's jeb, the suppression of some information (either consciously cruncenscieusly) distorts the view of reality received by the top leader. If in a five-level bureaucracy enly 10% of the data that the tep leader should know is suppressed at each level, then the leader at A level will receive only 66 per cent of the important data fed into the pyramid at the Elevel (0.94 = 0.656). (Nonsen and Denns, 1965). Thus, the tendencies for bureaucraties to screen information may cause top leaders to be sys anatically misinformed through (a) failure to learn vital racts, especially those adverse to lower bureaucratic levels, and (b) a tendency to be told only what they want to hear. Similarly, large size may work posing intermediaries between a representative and his con-Bureaucrats at all levels of the organization tend to only what they want to hear. Similarly, large size min polyarchies to create barriers to representation, stituents (Dahl and Tufte, 1973, ch. 6). Bureaucrats at every level of the organization tend to carry out only part of the orders given to them. Since the personnel of any organization are pursuing their own interests instead of the leader's, they will be reluctant to carry out any orders which would reduce their income, power, prestige,

or chances of advancement. Even if they cannot flutly refuse to carry out such orders, the vigor with which they execute them, their attention to preper follow-up precedences, and their imaginative application of these policies in new situations may be minimized without any actual insubordination. The technique of "kicking it around until it disappears" is a well-knewn bureaucratic technique.

Obviously, the cumulative effects of such partial failure to execute orders can be very great if the organization has many layers. In the case of the bureaucracy mentioned above, a failure to carry out only 5 per cent of the orders given by the lender at A level would result in only 81 per cent of the top leader's orders being carried out by the lowest level per onnel (0.85 \* 0.814). Furthermore, it would be highly unrealistic not to make some allowance for inefficiency in carrying out orders due to incompetence, intertia, and misunderstanding. There are a number of techniques used by leaders to counteract the above inofficiencies and goal divergencies. The Seriet Union has developed a separate hierarchy of party members to check on the fulfilling of orders and to relay information. Spies within the organization, peer-group pressures, personal ties between top leadership and lower bureaucrats, runden inspections, idhology, and a host of other devices are used to produce closer conformance of subordinates behavior to the desires and policies of top leaders. Exportion of indicates, however, that all these remedies are only partially successful in very large bureaucacies. As a result, the inefficiencies described above cause large organizations to deviate systematically and significantly from the course of action that weald, in fact, maximize attainment of the leader's objectives.

In a polyarchy with a free press both the leadership and the bureaucracy are more responsible to public opinion than in command systems. The free press often performs the role of critic, censor, and exposer of corruption, inefficiency, and deviation from public values. The role of the Jack Andersons in polyarchies is a critical one. It is one of the najor factors that tend to force leadership in such press. Indeed, this type of exposure to the press in poly-archies is a favorite technique of bureaucrats to keep all levels of leadership in line with publicly-announced ideology. systems to pay more than lip service to public opinion and ideology. Leadership is always fearful that bureaucrats will expose deviation from publicly expressed goals to the free

control of communications, such exposes its solden possible-except for burcaucrats reporting on superiors who are not following top leadership's policies. Thus, the command system can build into itself--particularly with party members at all levels as in the U.S.S.R.--a checking system to see that management is fulfilling top leadership's orders. In polyarchies with a free press the system of exposure works instead to see that the leadership itself is in line with public opinion and public ideology. This is a critical difference. Indeed, it is a difference that makes for greater flexibility of policy in command systems than in free press polyarchies. In a commund system without a free press and with

common problem of trying to make the bureaucracy responsive to their orders. As mentioned, in such a command system as the U.S.S.M., party members at all levels of the bureaucracy act as checks upon other bureaucrats to see if indeed the orders of the leaders are being carried out. In polyarchies no such system is common. Indeed, the leader of a polyarchies he such system is common. Indeed, the leader of a polyarchies and particularly disficult problem where the bureaucracy faces a particularly disficult problem where the bureaucracy Noth leaders in polyarchies and command systems face a has a civil service tenure system. With only a relatively few positions in the bureaucracy at his disposal, the polyarchy leader faces a less responsible bureaucracy than the leader of a command system.

getting their bureaucracies to follow the goals set down for them and to act rapidly and flexibly. In a polyarchy a major fear of the bureaucracy is an official investigation which would produce evidence for reform or change. But too leadership in a polyarchy is reluctant to use this tool freely for fear it would reflect on itself and might bring the affairs of government to a halt in the area under investigation. Both lenders, however, face the common problem of

The inefficiencies described here are inherent in all large organizations. The larger the organization, the more the Teader must yield discretion over the bureneracy to those whose goals are, as discussed, not necessarily identical with his own. The leader of a large political system must delegate authority to others (that is, permit the screening of information and give some discretion to his subordinates in size. Inefficiency arises whenever such delegation of author-ity leads to results other than those which are optimal from the viewpoint of the political leader. blems generated by the organization. This is a function of below the amount of information necessary to cope with procarrying out his orders) because his own personal capacity to handle information and decisions is limited at a level

Non-optimal results may occur because the goals of the

5)

<sup>4.</sup> There is some reason to think large organizations, whether nations or firms, are more prone to risk taking. See Russett (1968b) and liyner and Pashigian (1962).

different from his own. If these subordinates had goals precisely identical to his own, then they would act as mechanical attentions of his own capacity. Much recent literature, however (nost notably Allison, 1971), makes it clear that this rarely happens. In summary, some behavior which is non-optimal from the viewpoint of the leader arises because of both size and goal divergence. Large size is what requires him to delegoal divergence. Large size is what requires him to delegate authority in the first place; but goal divergence combines with the render effects of size to increase non-optimality of the results (non-optimal, that is, as far as the goals of the political teader are concerned). 5. Now do leaders attempt to circumvent these bureaucratic problems? We have mentioned examples of ways by which political leaders attempt to cope with the problems of goal divergence. A leader of a polymrchy relies generally on three strategies: (1) He may create a whole new bureaucracy staffed with his own men. In this way he would hope that the agency would follow his own goals and policies.

(2) He may utilize a horizontal solution, that is, give a new group the moust or decisions when unable to reform or eliminate the eld bureancracy. (An example used earlier was the development of a powerful White House stuff to replace the power of the State Department as foreign policy formulators.)

He may utilize the free press to learn what the neracy really is doing and if it is officient in following his policies. bureaucracy

A leader in a command system relies generally on three other main strategies to circumvent the problems of the bureaucracy

service. Thus, the command system leader attempts to build an organization whose key men he hopes are loyal (1) He may fill all key pesitions with men loyal to himself. Unlike leaders of Democratic Polyarchies, a leader of a command system can usually replace anyone he wishes--not having to contend with a tenured civil

(2) Without a free press, it is much harder for the leader of a command system to hear about what is going on in various parts of the government bureaucracy.

Warinbles, Measures, and Mypotheses

by the top executive over his own bureaucrscy, to incure that his goals (whether or not they are congruent with those of the shareholders) are respected in policy-implementing. This latter includes centrolling the function of intelligence gathering in the bureaucracy to insure that accurate information gets up to the manager, Alternatively, the manager must have other sources of information, for example the reporting of a free press, to supplement the bureaucracy's information-How can we come to grips, empirically, with a theory of political entreprenourship? Hany of the hypotheses are difficult to test at this point. However, we can identify two separate problems. First is the matter of control of the top executive (manager) by the rest of the system, in order to insure that the goals he pursues in policy-making are congruent with those preferred by most members of the system (shareholders). The other is the matter of control gathering.

The following independent variables then are central to the analysis, as they are hypothesized to affect the outputs of a political system: 1) Type of political system, in terms of the degree and type of control over the managers, and 2) Bureaucratization, measured by size of the bureaucracy or by the degree of role specificity within the in-

In the subsequent analysis we shall employ these measures to operationalize, however crudely, the above variables:

For type of political systen, we will employ five different operationalizations in an attempt to tap the degree to which given systems approximate some of the major characteristics attributed to a polyarchy:

Therefore, he generally relies heavily upon secret agents and spies within the government to check and counter-check upon his subordinates.

<sup>(5)</sup> The above strategy can lead eventually to the creation of a vertical solution to circumvent the official bureaucracy. The command system leader, therefore, can build, as in the USSR, a parallel organization of loyal party members to check on the other hareaucrats. This leads to more punishments and rewards in an attempt to make the traditional bureaucracy work as the leader wishes rather than for him to

it, however, so that systems with low ratios are assumed to be polyarchical and assigned high values.

three-point scale of "press freedom," with the high scores assumed to represent polyarchies. An index of party fractionalization for seats in the legislature. This measure is low when virtually all the seats are held by a single party, and high when many parties are represented without any one approaching a majority. It is clear that little fractionalization indicates little pelyarchic central ever the executive, but high fractionalization does not necessarily indicate greater polyarchy than does mederate fractionalization. For exampla, France in the Fourth Republic had a highly indicate greater polyarchy than does not the main and Assembly, and shifting coulitions contributed to greatly weakening the power presed to the top civil servants, not to the elected marliament. We shall deal with this simply by dichotomicing the initial interval scale of party fractionalization, and "some," whether moderate

A three-point electoral regularity scale, with high as polyarchical. These invarious variables are operationalized with the relevant data from Taylor and Hudson (1972).

A so-called "Lonic" score, from a schema devised and coded by Fred Righs (1970 and personal communication). This index is intended to measure the degree of control of various sorts ever the top executives. Such centrol need not be by multiple purties and free elections; rather, a political chief might be believed against a quite autonomens bureaucrecy or single-purty organization; the bureaucracy may be open or closed. We shall use this as simply a two-point scale, owitting ambiguous cases and making high values consistent with substantial control ever the executive.

allow us to concentrate on the one that seems most powerful. All five of these variables, and especially the first four, are highly intercerrelated. The preliminary analysis will examine the apparent effect of each singly, and then

We have four measures to tap aspects of bureaucratization. The first three are taken from the published edition of laylor and Hudson (1972), and the fourth from their publicly-available computer tape.

Size of political system as measured by population logged to the base 10.

Size of economic system, as measured by Gross National Product (GNP) logged to the base 10. In this, as for the previous variable, it is assumed simply that, ceteris paribus, a larger system requires a larger bureaucracy.

mental political and social change (e.g., Communist countries, Spain in 1936, the Mexican revolution, Germany after World The coding difficulties are severe, but as a crude indicator of role specification over time, for separating long-entrenched bureaucracies from those recently installed Age in years of the polity's institutional form as of 1965. Here we used Taylor and Mudson's index for year of independence except for those countries undergoing fundaor vigorously shaken up, it may have some value. War II).

Government consumption as a proportion of GNP, thus measuring the relative importance of the public bureaucracy within the polity. 7

Finally, we have several different measures of possible desired outputs of political systems as dependent variables:

Peace, or its absence, who assume that peace may be desirted for its own sake, or perhaps as avoiding risk to the integrity of the political system. We operationalize this with data on the number of international wars! (defined here as armed conflicts with a total of at least 100 dead on both sides) a state was involved in during the period 1946-67, using and extending the data of Russett (1967, p. 197) While it would be desirable on theoretical grounds to sount only those wars the state initiated (or on-going wars the state joined as an additional helligerent), in practice this distinction is virtually impossible to make in more than a purely formal way. But particularly in the case of several states which engaged in three or more wars this difficulty may not be too serious since cases of pure aggression or the constitution of the case of sales of sales of the constitution of the case of sales of the constitution of the case of sales of the constitution of the case of the case of the constitution of the case of the constitution of the case of the case of the constitution of the case of the constitution of the case of the case of the constitution of the case of the case of the constitution of the case o victimization are relatively rare. In addition to suggesting a ranking of values that does not put peace as high as some other states might put it, frequent involvement in violent conflict may indicate a somewhat greater readiness to take risks, in view of the known disabilities that may accrue even to wartime "victors,"

All pre-1900 constitutions coded as 65, since very great age should not make much difference.

countries arbitrarily coded at .30, a level well above that Communist This does not include public enterprises. given for any other state.

Rechonic greath. This might be received either as growth dividual wellars, a crude measure of improvements on individual wellars, or as growth in GNP for the nation as a whole, for the national wealth and Power base. While these will be fairly highly correlated, they remain both analytically and empirically distinct. We shall measure each one over a short period of time (approximately 1960-65), and over a This might be necessared either as growth longer peried (approximately 1950-65).

Relative equality of returns among individual citizens. Sightly correlated with each other. The first is the measure of sectoral incemequality, compiled by comparing for each major eccupational sector of the economy (agriculture, industry, etc.) the difference between the share of that sector in the economy's total employment and its share of that sector and the economy's total employment and its share in the domestic product. The second is a measure reported by Drewnowski and Scitt (1968), whereby each nation is ranked from 1 to not availability of certain "luxuries," in this case television sets per 1968 population, and on un index known to show relatively high distribution of welfare threughout the system, such as a inversal information with second variable from that can the first, one obtains a new index with positive scores sugglesting first, equality, accordive ones suggesting inequality. To contrast with the sectoral income equality index, we shall call this simply an andex of equality. We would be course prefer to work with less crude measures than either of these, such as data on inequality of income distribution by households, but such data still do not exist for enough countries. Both the growth and inequality data used here are from Taylor and Hudson (1972).

three dimensions -- perce, growth, or equality -- will be valued more, but only that in general the more a system is responsive to the denands of its citizens the more it would seek all three. It is of course quite conceivable that most members of a political system might walue one so highly as to accept a very low return one or either of the other dimensions, We make no prior assumptions as to which of the above for example sacrificing peace for growth.

on and extending the discussion in the first of this paper, hypotheses are: Drawing Sart

Systems with accountable executives (that is, polyarchies or systems with other cilective controls ever the executive) will have

Loss war, and

Hors equality than will systems with relatively less-accountable executives.

the supposition that, ceteris paribus, the citizens will want peace. Furthermore, leaders may be citizens will want peace. Furthermore, leaders paribus, the citizens will of office. Furthermore, leaders don them by the citizens of office) for losing are likely to be greater than the prospective rewards to the leaders for winning. Sometimes even the leader's short-run payoffs for winning, a way may be negative, as for example Winsten Churchill in 1945. The more accountable a leader, the more will he anticipate negative payoffs from any participation in war. Similar negative associations between accountability and risk-taking have been identified in first, where corporate managers seem to perceive the shareholders as more ready to punish them for. costly failures than to reward them for successful risk-taking We would expect the first hypothesis to be confirmed on (Baumol, 1959).

some non-accountable executives may enforce relative egalitarian-ism in order to reach other goals (c.g., to gain support for the sacrifices of rapid growth of the national power base). Nevertheless, on the whole one would expect systems with broadly accountable executives to be more egalitarian. The equality hypethesis is not quite self-evident, since

The third hypothesis concerns growth, We expect systems with accountable executives to have some growth, but as a class to exhibit less variation in their growth rates than do the non-accountable polities. That is, we hypothesize the existence of a "golden noun" rate of growth that will be broadly considered as satisfactory, encouraged by most or all of those governments which are accountable to their populace. The citizens presumably will prefer some mixture which combines potential growth with current income (including an element of equality) and other non-economic benefits, Non-accountable executives, however, may differ sharply in their polities. In some, such as the traditional societies, the executive will try to maximize his tenure in office by preventing aconomic change that would rock the secial and political boat. In others, such as moderniang or relatively modern states, the suppressing the opposition (e.g., the old aristocracy), or as a means of building the national power base. In the latter instance, if the non-accountable executive feels well in command of his polity, increasing its power base may be a executive may perceive economic change as a neans of further Mence we axpect to find: means of increasing his own.

H1.3 Wider variation, from stagnation to rapid growth, among non-accountable polities than among accountable polities.

own goals and those of the managers. By contrast, our bureaucitizens to insure relatively high congruence between their All the above hypotheses concern the ability of the

cratization hypotheses concern the ability of managers to implement their eva policies, whether or not these policies are congruent with the citizens'. Thus we hypothesize that the bigger the system:

H2.1 The more war it will have. We hypothesize that creating a biggor bureaucracy results, ceteris paribus, in less flexibility and greater difficulties in achieving finetuned control. In international crimis or ether war-prone situations flexibility and good control may be essential to avoid war, thus regardless of the amount of war the top management warts, it will be more likely to get into war if the government is heavily bureaucraticed. (Big systems also may have more war simply because of their greater role in the international system, a variable not included in our thoory and impossible to distinguish empirically in this analysis from the effects of bureaucratication.)

assume that a typical economic system will have. We might assume that a typical economic system, left to itself without political interference, will tend to become more inegalitarian (e.g., the rich get richer and the poor get poerer, possibly a la Marx). A very big bureaucracy, we hypothesize, working at cross-purposes and inefficiently, will have the effect of leaving the economic system essentially alone, regardless of how much equality the chief executive wants to produce. One may find examples in instances where a big public sector, or a bureaucracy specifically intended to premote equality, is created and it is later discovered to have had little effect. The famous Anerican "war on poverty" generally fits the description. There are, however, persuesive center-hypotheses on this matter that we shall discuss shortly.

ing here is similar to that just above. We hypothesize that in the modern world sustained economic growth requires pretty good political centrol-though not necessarily through a centralized bureaucracy--over sector-economic conditions. Such control must be exerted to restrain inflation which would discourage saving and distort investment, and to stimulate production and employment during periods of diminished demand. Thus big systems will show lower grewth rates than smaller systems, rolardless of the amount of growth desired by the top executives, because of organizational inefficiencies.

The above three hypotheses are most plausible concerning those aspects of bureaucratization we would measure through indexes of absolute size, that is total population and total GNP. Big systems will evidence less control. But they may well held much less well for the rolative size of the bureaucracy within the polity; that is, when the measure of bureaucratization is government consumption as a proportion

of GNP. A viewpoint such as that suggested by Deutsch (1968) and Huntington (1968) says that a bigger bureaucracy relative to polity size would give more control over the non-governmental parts of the systems, that is, high G/GNP would be associated with:

### H3.1 Less war,

H3.2 More equality, and

## H3.3 More growth.

Another of our measures of bureaucratization was that of age of the political system, or specifically of the constitutional form. Age, as a measure of role-specification or rigidity of bureaucracy, should thus by our theory be associated with:

H4.1 More war (See also Burton, 1967, for hypotheses on the relative rigidity of old states leading them to war.)

# H4.2 Less equality, and

# H4.5 Less growth.

Alternative hypothoses, however, (especially those of Muntington, 1968) stress the difficulty of producing fundamental change in a society without first building modern political institutions. By this perspective, a charismatic leader of a post-independent third world ccuntry could de little by the way of permanently transforming the system without a good civil service. Competence of the civil service is likely to come only with time (though very old systems may lose much of their capability). A competent, though not necessarily large, bureaucracy would also be an asset in controlling foreign policy so as to avoid war. This perspective would lead us to expect age to be associated with:

### H5.1 Less war,

H5.2 More equality. This lutter positive relationship between age und equality might, of course, turn up for either or both of two other reasons not accounted for by the last hypothesis. One reason is that it may take a long period of bureaucratic effort to change income very nuch. (It certainly is true that in "normal" politics income distribution responds very slowly indeed to governmental policy; on the other hand it is precisely those revolutionary systems, with newly-reconstituted bureaucracies pursuing vastly different policies from their predecessors, that seem to be most effective in producing drastic income redistribution). The other reason, perhaps more plausible, would be simply that in the global sample of nations we shall employ, the new states

are typically peor ones, where inequalities are usually great for a variety of possible reasons quite unrelated to our theories here. For similar reasons one would hypothesize that older syste,s would have:

### More growth. 115.3

hypouneses will older worn in opposite elections flow our hypotheses about polyarchy. We commented for example, on the objection an internate seurce of information, an ordering in assisting chief executives to control, through an internate seurce of information, an ordering the top executive's four polyarchy, in addition to affecting the top executive's forther stranged above, may help him to implument these goals, and a big polyarchy should, on this reasoning, be more equal for have less war; then un couly ent-sized mon-polyarchy, possible else war; then un couly ent-sized mon-polyarchy, possible elects (control and solf-interest repetring polyarchy to the output variables, but we must nevertheless be afort to the difference on theoretical grounds. Alternative in sink in big polyarchy the bureuneracy may become a means of insulating the literature on firms, where shareholder control is facilitated in challer firms, in any case, the distinction sequence in their first in the resistant internation between the requires in the literature or firms, where shareholder control is facilitated in challer firms. In any case, the distinction requires in the literature in the recover the entitle internation between the polyarchy and bureaugratization variables, and specifically to analyze the effect of bureaugratization in polyarchies Note that for particular states our bureaucratization hypotheses will often work in opposite directions from our and non-polyarchies separately.

### Results

custon, report only those equations where the trest indicates at least one independent variable in the equation is statistically significant at at least the .10 level. In so doing we Given the above hypotheses and operational indices, we wise multiple regression analyses. To have complete data as ef 1965 on not of the variables for over 80 countries. The list of countries examined is given in the appending of in no sense a render semple of the universe of national political systems; as usual the underdeveloped countries are underrepresented because of missing duta. Nevertheless wirtually all types of countries virtually all types of countries are present in some degree following analysis we shall, according to widely observed following analysis we shall, according to widely observed.

F-test for the whole 7 8. This is more appropriate than using the F-test for the equation, since we are interested primarily in identifying particular variables which have an effect.

significance in such a context, but only use the convention to focus attention on those equations explaining a "substantial" portion of the variance. With small samples (as especially occur among the non-polyarchies) that procedure seems more appropriate to us than does focusing on a proportion of variance level that is identified without any make no strong assumptions about the meaning of statistical reference to sample size.

trol over the executive to have the snaller standard do-viation. In Table 1 we see the results, with each variable coded se that the high-control systems, appect ow. non-polyarchical top executive, under less control than his polyarchical top executive, under less control than his his self-interest with that of the populace in general. Hence he would be note likely to want either faster or slower growth than would be generally desired by the populace. We test this hypothesis simply by using each of our five political system measures, dichetomizing each into categories signifying greater and lesser control over the top executive, and comparing the standard deviation in the two categories. first test the hypothesis relating polyarchy to growth, indicated in hypothesis hl.5, here we expected not that polyarchies would show either unusually high or unusually low growth rates, but rather that as a group polyarchies would show less variation than would non-polyarchies. The Before proceeding to the regression analyses, let us We expect, of course, to find the systems with high con-

Table I: Political Systems with Much Control Gver Executive Show Loss Variation in Grouth Rates Than Systems with Little Control

	. n %	△ GNP 50-65	Standard \$\triangle \text{GNP}\$  60-65	Scandard Deviations $\Delta$ GNP $\Delta$ GNPpc $60-65$ $50-65$	A GNPpc 60-65
Press Freedom	Nigh 47 Low 21-22	H 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.77	1.93	1.58 1.99
Pop/Internal Security Forces	Nigh 53-55 Low 27	100 100 100	2.70	1.85	1.57
Electoral Regularity	High 39 Low 37	1.65	1.62	1.69	1.54
Party Fractionalization	High 50-52 Low 26	94. 94. 94.	1.59 2.20	1,68	2.39
Tonic Scores	High 45 Low 14-15	1.90	1.79	1.85	1.50

\*N varies slightly for different growth rates

This hypothesis is very strongly confirmed. In every one of the 20 separate tests, using different measures of grawnian and different measures of political system-type, the high centrel systems evidence appreciably less variation. Such unifermity of results would occur with a probability of less than .0001 by chance. It is important to note that the difference is about the same whether one considers growth better operationalised here as improvement in individual welfare (GAN per capita) or the matichal base (total GNP).

Proving to the regression analyses, the attempt is to fredict each of various outputs (var, equality, growth) from various mensures of pelitical system type and bureaustration. The five different indicators of political system type are all highly intercorrelated, so if we are to see which is the best predictor we can use only one in any single requirien. The bureaucratication measures, however, are not highly intercorrelated, and generally each measures quite a separate dimension. Thus we can use age, G/GNP, and a measure of size all in the same equation without suffering the effects of multicellinearity. It is only impossible to use GNP and pepulation, each measures of size, in the same equation, since they are very highly cerrelated with each other. Therefore our basic equation is of the form

where A is the ustimuted interest or constant term, B is the regression coefficient, and els the error term, Initially this equation was run in ten different forms for each dependent variable, using each of the five different political system neasures for Pol and both GNP and population (in different equations) for Sine, we have seven different measures for the dependent variable (one for war, two for equality, and four for growth) 70 different equations are at issue.

Ne while not burden the wariable for war, two for equality, we will not burden the understy that for most forms of the equation the variable electoral regularity score was marginely the best predictor among the political system indices. Since it penhaps tays the single conceptually mest important dimension of polyarchy and the m for that indicutor was also with (22 for war), to keep the presentation annageable we shall report Cutput =  $\lambda + B_1(Fol) + B_2(Ago) + B_3(G/GNP) + B_4(Size) + e$ separately the equations using various forms of the dependent Only those variables identified as variable, as well as those using different forms (GNP or population) for size.

statistically significant at at least the .10 level are shown. Regression coefficients are given in Table 2, with the t-ratios in parenthesis beneath each coefficient.

Table 2 here

moderately fruitful. Only bureaucratization or instant by size of political system showed a significant ausociation. The direction was as hypothesized (H2.1) and was stronger when CMP rather than population was used as the measure of size, but the proportion of variance accounted for it and the proportion of variance accounted for it anotic podest. The other hypotheses attempting to Our efforts to explain war involvement were only ately fruitful. Only burfaucratization as indexed

Our efforts to explain equality prove more successful, associated with either the income equality or index of equality seasures, but the income equality or index of equality seasures, but the bureaucratication measures have complex results. Are is not significantly associated with the income equality index, but is negatively associated with the order of the income equality index, but is negatively associated with the order form Huntington and confirming hypothesis H5.2 derived from our own theories. With government consumption as a fraction of GNP (G/GNP) we find government consumption in the income equality equations, thus providing neutral support for hypothesis H5.2, as derived from Deutsch and In the index of equality equations, in the index of equality equations, in the index of equality equations. Finally, there is some association between equality and absolute size of political system, but the sign varies depending on which equality, neasure, but the sign varies depending on which equality, leading us to never equality, leading us to accept hypothesis H2.2. The results are inconclusive, And in only ore of the four equality equations is the proportion of variance explained

The efforts to explain grgwth rates are also moderately successful, though again the  $r^2$  is never high. As a measure of size, GNP is somewhat positively associated with per

(Y)

With this procedure multicollinearity is nil; intercorrelations among independent variables in any one equation virtually always are under .25.

capita growth, the opposite of what is predicted by H2.5, but there is no such association with population. A rodest positive relationship between relative government consumption (G/GNP) and the growth rates appears in several equations, supporting the Deutsch and Huntington Profilesis H3.5. Neither of our conflicting hypotheses (H.4.5 or 5.3) about the effect equations using war and equality as dependent variables, political system type makes little difference-polyarchies as a group are neither better nor werse off. Nevertheless, we carlier found strong support for eur political system hypothesi about variation in growth rates, H1.3.

Before discussing these results further, we turn to presenting the equations derived by treating volyarchies and non-polyarchies separately. We ran all the equations described above on two separate subsamples, those with high on the electoral regularity index. Since electoral regularity index. Since electoral regularity index. Since electoral regularity does not appear as a separate term in the following equations (Table 3), but etherwise the form is just the same as that used to produce Table 2. Though political system did not seem important in the previous additive models, we now can see whether polyarchy interacts with bureaucratization, reinforcing or counterbalancing its effects.

### Table 3 here

Table 3 strongthens some of the findings reported in regularity) the hypothesized (hi.1) association of Mar involvement with size (both as measured by population and by more of the total variably, accounting now for one-fifth or compounded by polyarchies, but are relatively unimportant within the non-polyarchies (no significant relationships), more likely than non-polyarchies of siniarity and polyarchies are more likely than small polyarchies, and wolved in war.

Similarly, the control for system type strengthens most of the relationships we initially found for equality. Within the group of polyarchies the association of income equality

Table 2:	Significant	Veriables		**			
Countries,	Significant With Elector	oral Regula	an All ritu ac	liquations	Using the	Entire :	Sample of
			reacy as	measure	or Politic	al System	m Type

				117	
	Indepen	dent Variables			
Dependent E1. Reg Variable	• Age	G/GNP	Size	$\mathbb{R}^{\mathbf{Z}}$	N≖
War			0.47 Log Pop	1.7	
War			(3.41)	.13	82
			0.10 Log GNP (1.34)	.04	82
Incomo Equal.		1.38 (2.94)	Log Pop. not sig.	.16	47
Income Equal.		1.06 (2.39)	2.85 Log GMP (3.12)	.31	47
Index Equal.	-0.17 (-2.23)		( a a a a	.03	61
Index Equal.	-0.14 (-1.81)		-1.81 Log GNP (-1.66)	. 12	61
Δ GNP 50-65		0.10 (3.13)	( 1.00)	.12	74
△ GMPpc 50-65			0.28 Log GNP (1.99)	.05	74
Δ GNP 60-65		0.11 (3.46)	Log Pop. not sig.	.14	74
△ GNFpc 60-65		0.09 (2.95)	0.24 Log GNP (2.05)	. 19	74
			(,)		

soldmas-dus o	Regularity the Two	Equations Incorposit	Table 3; Skuificant Variables in All of Countries, Controlled for Degree of
---------------	--------------------	-------------------------	---

95	\$Z*		(2°28)		A GNPpc 60-65
26	\$2.		11.0 (56.55)		Q CMB 20-65
		vairnit	Low and Medium Electoral Regu		1
8 &	60 •	0.27 Log GWP			Q GNIDC 00-02
35	60 *	0.29 Log GMP			2 GNPpc 50-65
35	st.			(-5.25) (-0.05	♥ CND 20-02
42	61.			(88.5-)	Index Equal.
45	92.	4,99 Log Pop		(06.2-)	Index liqual.
22	٤٤.	2.00 Log GNP	65.4)		Income Equal,
22	15*		19.2	(1.69)	Income Equal.
38	02.	(\$.22 Log GMP			#ug
28	v z •	0.62 Log Pop			av <sub>M</sub>
					a. M
=N	z <sub>Jl</sub>	ozig	GAGNP High Plectoral Regularity	olla	Dependent Variable

As before, a few of the hypothesized relationships with the besitively relative to the present of presents storal measures, again the opposite of what was predicted by M12.

The results still do not account for every large proposition a state non-trivial concent for every large proposition of the very large proposition of the optimization of the optimiza

with G/GNP is effectively confirmed; it is by far the most important variable in both equations, explaining over half archies suggests that political system door make a disperance conditions, a relatively big government can make a big difference in redistributing income, inferts to presumed consequent bureaucuraticization are less impossive, mildly nositively note relatively big government can presumed consequent bureaucuraticization are less impossive, mildly positively nasocared with income equality in one of aced with the index of equality in horth of those equality associt these two equations, but much more strongly negatively associt while the results are not conclusive, the carbitations, thesis Hu.2 is somewhat better than that for the sore we arthit the index of equality in both of those equations, thesis Hu.2. Hiddence for the effect of size is equality in one equation, and population in another. On the thesis Hu.2.

As was true with the war hypothesis, all the hypothesized relationships for equality wash our within the group of non-polyarchies (states with medium and low electoral regularity). This contrast with the situation in polyarchies is impressive.

### Conclusion

This paper consists of two major sections: (1) a potentially different behavior of leadership in polyarchies or non-polyarchies, and (2) an empirical section which attempts to test cur hypotheses about political entrepreneurship.particularly as they apply to different comparative political systems and most importantly (as it turned out) different sizes of burcaucratic systems.

have the same corroboration in the political sphere of two distinct behavior patterns that exist in economic sphere of two of corporate behavior. We do have, however, some interesting ganization upon the political entrepreneur. More specifically, these results have strong implications for the current debate about the effectiveness of large polyarchies. In contrast to the heyday of enthusiasm for democratic theory, polyarchy recently has come into substantial criticism for its alleged inability to achieve major goals. Much of this criticism is particularly centered on the polyarchy that is the United States of America, in light of that system's "nanifest" failures at At this point in our empirical calculations, we do not hone and abroad.

the effects of bureaucratization (measured by size or role) and type of political system (in terms of degree and type of control over or by meagers) as affecting the pursuit of three values widely sought by peoples around the wirld; namely, peace, our neasures are too crude to moreover, Note research is needed; and various third variables may be affecting our results, but the criticism of polyarchy per se finds little support in the results of our analysis here. We found no negative relations between polyarchy and either peace or equality, and pretty consistently found that polyarchies were nore likely than non-polyarchies to be characterized by moderate rates of growth. To summarize our empirical results: We have looked at

We also found that burenucratization had important effects, some of them in "dosiruble" directions, some not. Newer systems, presumnly less subject to the rigidity of bureaucratic role-specification, evidence somewhat more equality than do older systems. On the other hand, polyarchies where the government sector is large relative to the rest of the economy also tend to have greater equality than do systems where the governmental sector is small. Systems with relatively large public sectors among the non-polyarchies seem to show somewhat more rapid growth. Most important and most disconcerting, while big polyarchies (big in population or

in economic size) grow a little faster than do small systems, they are involved in more wars than are smaller states or are non-polyarchies regardless of size. The effect of size on war involvement is strongest in the polyarchies though polyarchy has no independent effect on war-proneness.

Proponents of the cult of bigness also are now in retreat. It may well be that for very many purposes the larger modern states, like some firms, have reached a point where size is counterpreductive for the populace as a whole. Thus the perspectives we have found in the analysis of firms in the economic market-shareholder control is facilitated both by institutional forms designed to equate managers' interests manageable size. Were broken with shareholders and by keeping the firm down to a relatively with shareholders and by keeping the firm down to a relatively cans (and the world) might be better off if the United States a sovereign nation. Perhaps, for critics of the American sonetimes clumsy democratic institutions.

10. An extensive review of theory, and some data, on questions other than those covered here is Dahl and Tufte (1973). They conclude there is no particular optimal size for a polyarchy, but do not offer empirical results on outputs such as we have examined.

#### Appendix

Countries Included in Analysis (Not all countries in each test)

Donnark Dominican Republic Crechloslavakia Ecuador El Salvador dast Germany Congo (K) Costa Nica Argentina Australia Austria Belgiun Bolivia Brazil Dulgaria Burna Cambodia Control Albania thopia Canada rance

Tunisia Turkey United Arab Republic Togo Trinidad & Tobago U.S.S.R. United Kingdom United States Venctucia North Victuan South Victuan Yugoslavia Zambia Sierra Lecne South Africa Sweden Fortugal Rumania Fanzania Thailand Uruguay Syria Spain North Korea South Korea Peru Phillippines Morocco Notherlands New Zealand Luxembourg Malaysia Mexico India Guatemala londuras Nicaragua Hungary reland Italy Pakistan araguay Japan Kuwait srael anama ran

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